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1: Neuroreport 1998 Jul 13;9(10):2365-9

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## GDNF administration induces recovery of the nigrostriatal dopaminergic system both in young and aged parkinsonian mice

Date I, Aoi M, Tomita S, Collins F, Ohmoto T.

Department of Neurological Surgery, Okayama University Medical School,

Glial cell line-derived neurotrophic factor (GDNF) is a member of the transforming growth factor beta superfamily and acts as a neurotrophic factor for the nigrostriatal dopaminergic system. GDNF was injected stereotactically into the striatum of young (6 months old) and aged (12 months old) C57BL/6 mice that were treated with 4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) 1 week earlier. Immunocytochemical and neurochemical analyses showed significant recovery of the nigrostriatal dopaminergic system both in young and in aged mice. Since Parkinson's disease is a neurodegenerative disorder mainly affecting elderly people, this result demonstrates the potential usefulness of GDNF in treating Parkinson's disease.

PMID: 9694229 [PubMed - indexed for MEDLINE]

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